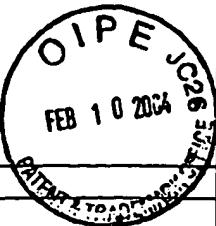


FORM PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE								Atty Docket No.: 153454600010					
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)													
(37 CFR 1.98(b))								Serial No.: Not Yet Assigned <i>10/632,604</i>					
								Applicant(s): Anguera Pros et al.					
								Filed: Herewith					
								Group: Not Yet Assigned					
<b>U.S. PATENT DOCUMENTS</b>													
Exam. Init.		Patent Number							Issue Date	Patentee	Class	Subclass	Filing Date
<i>TC</i>		6	1	2	7	9	7	7	10/03/2000	Cohen	<i>343</i>	<i>700MS</i>	
<i>TC</i>		6	1	4	0	9	7	5	10/31/2000	Cohen	<i>343</i>	<i>700MS</i>	
<b>FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION</b>													
Exam. Init.		Document Number							Publication Date	Country or Patent Office	Class	Subclass	Translation
<i>TC</i>		9	9	2	7	6	0	8	06/03/1999	PCT			
<b>OTHER DOCUMENTS (Including Author, Title, Date**, Relevant pages, Place of Publication***)</b>													
<i>TC</i>		Anguera, J. et al. "Miniature Wideband Stacked Microstrip Patch Antenna Based on the Sierpinski Fractal Geometry," IEEE Antennas and Propagation Society International Symposium, 2000 Digest. Aps., vol. 3 of 4, pages 1700-1703 (July 16, 2000)											
<i>TC</i>		Hara Prasad, R.V., et al., "Microstrip Fractal Patch Antenna for Multi-Band Communication," Electronics Letters, IEE Stevenage, GB, vol. 36, no. 14, pages 1179-1180 (July 6, 2000)											
<i>TC</i>		Borja, C. et al., "High Directivity Fractal Boundary Microstrip Patch Antenna," Electronics Letters. IEE Stevenage, GB, vol. 36, no. 9, pages 778-779 (April 27, 2000)											
<i>TC</i>		International Search Report from the corresponding PCT patent application dated October 22, 2001 (3 pgs.)											
Examiner <i>Scanduchi-A</i>		Date Considered <i>9/29/04</i>											
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.													

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

(37 CFR 1.98(b))



Serial No.: 10/632,604

Applicant(s): Anguera Pros et al.

Filing Date: August 1, 2003

Group: Not Yet Assigned

U.S. PATENT DOCUMENTS

Exam. Init.		Patent Number							Issue Date	Patentee	Class	Subclass	Filing Date
TC	2002/	0	0	0	0	9	4	0	01/03/2002	Moren et al.	426	482	
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TC	2002/	0	1	2	6	0	5	4	09/12/2002	Fuerst et al.	105	22405	
TC	2002/	0	1	2	6	0	5	5	09/12/2002	Lindenmeier et al.	449	24	
TC	2002/	0	1	7	5	8	6	6	11/28/2002	Gram	116	108	
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TC		3	5	9	9	2	1	4	08/10/1971	Altmayer	343	724	
TC		3	6	2	2	8	9	0	11/23/1971	Fujimoto et al.	134	198	
TC		3	6	8	3	3	7	6	08/08/1972	Pronovost	342	28	
TC		3	8	1	8	4	9	0	06/18/1974	Leahy	343	727	
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TC		4	0	2	4	5	4	2	05/17/1977	Ikawa et al.	343	702	
TC		4	1	3	1	8	9	3	12/26/1978	Munson et al.	343	700MS	
TC		4	1	4	1	0	1	6	02/20/1979	Nelson	343	858	
TC		4	4	7	1	3	5	8	09/11/1984	Glasser	342	12	
TC		4	4	7	1	4	9	3	09/11/1984	Schober	455	575.7	
TC		4	5	0	4	8	3	4	03/12/1985	Garay et al.	343	749	
TC		4	5	4	3	5	8	1	09/24/1985	Nemet	343	702	
TC		4	5	7	1	5	9	5	02/18/1986	Phillips et al.	343	745	
TC		4	5	8	4	7	0	9	04/22/1986	Kneisel et al.	455	78	
TC		4	5	9	0	6	1	4	05/20/1986	Erat	455	270	
TC		4	6	2	3	8	9	4	11/18/1986	Lee et al.	343	700MS	
TC		4	6	7	3	9	4	8	06/16/1987	Kuo	343	700MS	
TC		4	7	3	0	1	9	5	03/08/1988	Phillips et al.	455	272	
TC		4	8	3	9	6	6	0	06/13/1989	Hadzoglou	455	270	
TC		4	8	4	3	4	6	8	06/27/1989	Drewery	343	702	
TC		4	8	4	7	6	2	9	07/11/1989	Shimazaki	343	702	
TC		4	8	4	9	7	6	6	07/18/1989	Inaba et al.	343	700MS	
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TC		4	9	1	2	4	8	1	03/27/1990	Mace et al.	273	42R	
TC		4	9	7	5	7	1	1	12/04/1990	Lee	343	702	
TC		5	0	3	0	9	6	3	07/09/1991	Tadama	343	702	

TC		5	1	3	8	3	2	8	08/11/1992	Zibrik et al.	343	702			
TC		5	1	6	8	4	7	2	12/01/1992	Lockwood	343	700MS			
TC		5	1	7	2	0	8	4	12/15/1995	Fiedzuiszko et al.	426	482			
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TC		5	2	1	4	4	3	4	05/25/1993	Hsu	343	700MS			
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TC		5	3	5	5	3	1	8	10/11/1994	Dionnet et al.	343	702			
TC		5	3	7	3	3	0	0	12/13/1994	Jenness et al.	343	702			
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TC		5	4	2	0	5	9	9	05/30/1995	Erkocevic	343	858			
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TC		5	4	5	1	9	6	5	09/19/1995	Matsumoto	343	702			
TC		5	4	5	1	9	6	8	09/19/1995	Emery	343	749			
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TC		5	4	7	1	2	2	4	11/28/1995	Barkeshli	445	270			
TC		5	4	9	3	7	0	2	02/20/1996	Crowley et al.	455	270			
TC		5	5	3	7	3	6	7	07/16/1996	Lockwood et al.	343	702			
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TC		5	7	1	2	6	4	0	01/27/1998	Andou et al.	343	749			
TC		5	7	6	7	8	1	1	06/16/1998	Mandai et al.	343	702			
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TC		5	8	9	8	4	0	4	04/27/1999	Jou	343	702			
TC		5	9	0	3	2	4	0	05/11/1999	Kawahata et al.	343	700MS			
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TC		5	9	4	3	0	2	0	08/24/1999	Liebendoerfer et al.	280	735			
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TC		6	0	3	1	4	9	9	02/29/2000	Dichter	343	700MS			
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TC		6	0	7	8	2	9	4	06/20/2000	Mitarai	343	772			
TC		6	0	9	7	3	4	5	08/01/2000	Walton	343	781R			
TC		6	1	0	4	3	4	9	08/15/2000	Cohen	343	702			
TC		6	1	3	1	0	4	2	10/10/2000	Lee et al.	343	702			

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IC	6	4	7	6	7	6	6	11/05/2002	Cohen	701	516
IC	6	5	2	5	6	9	1	02/25/2003	Varadan et al.	343	702
TC	6	5	5	2	6	9	0	04/22/2003	Veerasamy	343	713
TC	H	0	0	1	6	3	1	02/04/1997	Montgomery et al.	343	700MS

**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

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TC	0	0	9	6	8	4	7	12/28/1983	EP			X (English Abstract)
TC	0	2	9	7	8	1	3	06/24/1988	EP			
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TC	3	3	3	7	9	4	1	05/09/1985	DE			X (English Abstract)

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TC		2	3	3	0	9	5	1	05/05/1999	GB			
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TC		0	2	0	9	6	1	6	6	11/28/2002	PCT	—	—	—

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TC	Ali, M. et al., "A Triple-Band Internal Antenna for Mobile Hand-held Terminals," IEEE, pp. 32-35 (1992)
TC	Romeu, Jordi et al., "A Three Dimensional Hilbert Antenna," IEEE, pp. 550-553 (2002)
TC	Parker et al., "Convolved array elements and reduced size unit cells for frequency-selective surfaces," IEEE Proceedings H, Vol. 138, No. pp. 19-22 (February 1991)
TC	Hansen, R.C., "Fundamental Limitations in Antennas," Proceedings of the IEEE, Vol. 69, No. 2, pp. 170-182 (February 1981)
TC	Jaggard, Dwight L., "Fractal Electrodynamics and Modeling," Directions in Electromagnetic Wave Modeling, pp. 435-446 (1991)
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TC	Zhang, Dawei, et al., "Narrowband Lumped-Element Microstrip Filters Using Capacitively-Loaded Inductors," IEEE MTT-S Microwave Symposium Digest, pp. 379-382 (May 16, 1995)
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TC	Radio Engineering Reference--Book by H. Meinke and F.V. Gundlach, Vol. I, Radio components. Circuits with lumped parameters. Transmission lines. Wave-guides. Resonators. Arrays. Radio waves propagation, States Energy Publishing House, Moscow, with English translation (1961) [4 pp.]
TC	V.A. Volgov, "Parts and Units of Radio Electronic Equipment (Design & Computation)," Energiya, Moscow, with English translation (1967) [4 pp.]
TC	Puente, C., et al., "Multiband properties of a fractal tree antenna generated by electrochemical deposition," Electronics Letters, IEE Stevenage, GB, Vol. 32, No. 25, pp. 2298-2299 (December 5, 1996)
TC	Puente, C., et al., "Small but long Koch fractal monopole," Electronics Letters, IEE Stevenage, GB, Vol. 34, No. 1, pp. 9-10 (January 8, 1998)
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TC	Cohen, Nathan, "Fractal Antenna Applications in Wireless Telecommunications," Electronics Industries Forum of New England, 1997. Professional Program Proceedings Boston, MA US, May 6-8, 1997, New York, NY US, IEEE, US pp. 43-49 (May 6, 1997)

Examiner *Leauchan*

Date Considered *9/29/04*

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)  
U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE



Atty Docket No.: 153454600010

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
(Use several sheets if necessary)

(37 CFR 1.98(b))

Serial No.: 10/632,604

Applicant(s): Puente Bialiarda et al.

Filing Date: August 1, 2003

Group: Not Yet Assigned

**U.S. PATENT DOCUMENTS**

Exam. Init.		Patent Number							Issue Date	Patentee	Class	Subclass	Filing Date
T C		5	4	5	3	7	5	1	09/26/1995	Tsukamoto et al.	343	700MS	
T C		5	4	9	5	2	6	1	02/27/1996	Baker et al.	343	846	
T C		5	5	3	4	8	7	7	07/09/1996	Sorbello et al.	343	700MS	
T C		6	0	9	1	3	6	5	07/18/2000	Demeryd et al.	343	700MS	
T C		6	2	1	1	8	2	4	04/03/2001	Holden et al.	343	700MS	
T C		6	5	2	5	6	9	1	02/25/2003	Varadan et al.	343	700MS	

**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

Exam. Init.		Document Number							Publication Date	Country or Patent Office	Class	Subclass	Translation
T C		0	6	8	8	0	4	0	12/20/1995	EP			
T C		1	1	4	8	5	8	1	10/24/2001	EP			
T C		0	0	5	2	7	8	4	09/08/2000	PCT			

**OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant pages, Place of Publication\*\*\*)**

Examiner	<i>Grundule</i>	Date Considered	<i>9/29/04</i>
<b>EXAMINER:</b> Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			



FORM PTO-1149 (Rev. 11-2000) (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE								Atty Docket No.: 153454600010				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)												
(37 CFR 1.98(b))												
								Serial No.: 10/632,604				
								Applicant(s): Anguera Pros et al.				
								Filing Date: August 1, 2003				
								Group: Not Yet Assigned				
<b>U.S. PATENT DOCUMENTS</b>												
Exam. Init.		Patent Number				Issue Date	Patentee		Class	Subclass	Filing Date	
<b>FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION</b>												
Exam. Init.		Document Number				Publication Date	Country or Patent Office		Class	Subclass	Translation Yes      No	
TC ✓		0	8	7	1	2	3	8	10/14/1998	EP	_____	
TC ✓		0	9	2	9	1	2	1	07/14/1999	EP	_____	
TC ✓		0	9	4	2	4	8	8	04/19/2000	EP	_____	
TC ✓		1	0	7	1	1	6	1	01/24/2001	EP	_____	
TC ✓		1	0	2	0	9	7	4	08/07/1998	JP	_____	
TC ✓		1	9	6	2	7	2	1	09/06/1996	PCT	_____	
TC ✓		1	0	0	3	6	7	0	06/22/2000	PCT	_____	
TC ✓		1	0	1	2	2	5	2	03/29/2001	PCT	_____	
<b>OTHER DOCUMENTS (Including Author, Title, Date**, Relevant pages, Place of Publication**)</b>												
TC	Sanad, Mohamed, "A Compact Dual-Broadband Microstrip Antenna Having Both Stacked and Planar Parasitic Elements," IEEE Antennas and Propagation Society International Symposium 1996 Digest, July 21-26, 1996, pp. 6-9.											
Examiner	<i>Janet A. O'Neil</i>					Date Considered	9/29/04					
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.												